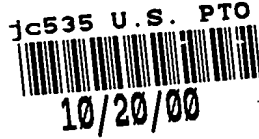


NONPROVISIONAL PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, Virginia 22320
Telephone: (703) 836-6400
Facsimile: (703) 836-2787



Attorney Docket No.: 107494

Date: October 20, 2000

BOX PATENT APPLICATION

NONPROVISIONAL APPLICATION TRANSMITTAL
RULE §1.53(b)

Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

Sir:

Transmitted herewith for filing under 37 C.F.R. §1.53(b) is the nonprovisional patent application

For (Title): DISCONTINUOUS POSITION DETECTING DEVICE AND METHOD FOR DETECTING
A DISCONTINUOUS POSITION

By (Inventors): Hideaki TESHIMA, Ryuji YAMADA, Yoshihiko HORIBE, Kenji MIYATA, Sunao
KAWAI, Kazuma AOKI, Norihisa FUJII

- ☒ Formal drawings (Figs. 1-9; 9 sheets) are attached.
☒ A Declaration and Power of Attorney is filed herewith.
☒ An assignment of the invention to BROTHER KOGYO KABUSHIKI KAISHA is filed herewith.
☒ An Information Disclosure Statement is filed herewith.
☐ Entitlement to small entity status is hereby asserted.
☐ A Preliminary Amendment is filed herewith.
☐ Please amend the specification by inserting before the first line the sentence --This nonprovisional application claims the benefit of U.S. Provisional Application No. _____, filed _____.--
☒ Priority of foreign application No. JP 11-298381 filed October 20, 1999 in Japan is claimed (35 U.S.C. §119).
☒ A certified copy of the above corresponding foreign application is filed herewith.
☒ The filing fee is calculated below:

CLAIMS IN THE APPLICATION AFTER ENTRY OF
ANY PRELIMINARY AMENDMENT NOTED ABOVE

| FOR: | NO. FILED | NO. EXTRA |
|--|-----------|-----------|
| BASIC FEE | | |
| TOTAL CLAIMS | 22 - 20 | = 2* |
| INDEP CLAIMS | 3 - 3 | = 0* |
| <input type="checkbox"/> MULTIPLE DEPENDENT CLAIMS PRESENTED | | |

* If the difference is less than zero, enter "0".

SMALL ENTITY

| RATE | FEE |
|---------|--------|
| | \$ 355 |
| x 9 = | \$ |
| x 40 = | \$ |
| + 135 = | \$ |
| TOTAL | \$ |

OTHER THAN A
SMALL ENTITY

| RATE | FEE |
|-------|----------|
| | \$ 710 |
| x 18 | \$ 36 |
| x 80 | \$ ----- |
| + 270 | \$ ----- |
| TOTAL | \$ 746 |

- ☒ Check No. 112957 in the amount of \$746.00 to cover the filing fee is attached. Except as otherwise noted herein, the Director is hereby authorized to charge any other fees that may be required to complete this filing, or to credit any overpayment, to Deposit Account No. 15-0461. Two duplicate copies of this sheet are attached.

Respectfully submitted,

James A. Oliff
James A. Oliff
Registration No. 27,075

John P. Darling
Registration No. 44,482

JAO:JPD/cmm